

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"200036043"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:43
S2	314909	seiko	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:53
S3	4004	seiko and gradation	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:53
S4	2910	seiko and gradation and image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:54
S5	7	seiko and gradation and image and tadao	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:54
S6	4	"10205085"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/04/30 13:56
S7	2	("6570612").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/05/04 09:34
S8	2	("6748111").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/05/04 12:44

## EAST Search History

S9	180416	(extract\$4 or separat\$3) same (lin\$3 or text\$3) same (color\$3 or colour\$3) same image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 01:37
S10	20955	(extract\$4 or separat\$3) same (lin\$3 or text\$3) same (color\$3 or colour\$3) same image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 01:37
S11	2496	(extract\$4 or separat\$3) near2 (lin\$3 or text\$3) same (color\$3 or colour\$3) same image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 01:38
S12	96	(extract\$4 or separat\$3) near2 (lin\$3 or text\$3) same (color\$3 or colour\$3) same image and (process\$3 near image) and (gradation or brightness or luminance) near2 (correct\$3 or improv\$5 or sett\$4 or adjust\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 01:40
S13	6	("4878125"   "4887151"   "4958218"   "4958238"   "4974071"   "5068746").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 01:46
S14	1	(extract\$4 or separat\$3) near2 (lin\$3 or text\$3) same (color\$3 or colour\$3) same image and (ordinate\$2 or abscissa\$2) same edge\$2 same (coincident)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:01
S15	133	(ordinate\$2 or abscissa\$2) same edge\$2 same (coincident)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:02
S16	101	(ordinate\$2 or abscissa\$2) near edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:11
S17	8	(ordinate\$2 or abscissa\$2) near edge\$2 and (coincident)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:12

## EAST Search History

S18	7868	(ordinate\$2 or abscissa\$2) same edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:14
S19	696	(ordinate\$2 or abscissa\$2) same edge\$2 same (straight) same line	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:15
S20	4	(ordinate\$2 or abscissa\$2) same edge\$2 same (straight) same line same text	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:15
S21	4	(ordinate\$2 or abscissa\$2) same edge\$2 same (straight) same text	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:15
S22	17	S10 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:16
S23	2	S11 and S19	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:20
S24	139	S10 and S18	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:21
S25	6	("4679941"   "4817184"   "4961425"   "5016173"   "5050227"   "5204918").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 02:28
S26	0	"10064873"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 02:38

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S27	2	("20040037475").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 02:39
S28	2	("5062414").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 12:28
S29	2	("5854853").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 12:29
S30	2	("6956569").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 13:14
S31	96	(detect\$4 or segment\$4) adj2 (text or character or shape) with (line or edge) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 18:41
S32	5	("4411015"   "4503556"   "4577235"   "4741046"   "4856074").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 18:51
S33	9587	(edge\$3 or boundar\$3) same (ordinate\$3 or abscissa\$3)	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 18:53
S34	10271	(edge\$3 or boundar\$3) same (ordinate\$3 or abscissa\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 18:53
S35	3545	(edge\$3 or boundar\$3) same (ordinate\$3 or abscissa\$3) and (text\$3 or character\$3 or alphabet\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 18:54

## EAST Search History

S36	730	(edge\$3 or boundar\$3) same (ordinate\$3 or abscissa\$3) and (text\$3 or character\$3 or alphabet\$3) and extract\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 18:55
S37	210	(edge\$3 or boundar\$3) same (ordinate\$3 or abscissa\$3) and (text\$3 or character\$3 or alphabet\$3) same extract\$3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 18:55
S38	6	("4251799"   "4377803"   "4860376"   "4918740"   "4926492"   "4998285").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/10 19:44
S39	276	(detect\$4 or segment\$4) adj2 (text or character or shape) same (line or edge) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:45
S40	7868	(ordinate\$2 or abscissa\$2) same edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:46
S41	1	S39 and S40	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:46
S42	146487	(ordinate\$2 or abscissa\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:49
S43	8	S39 and S42	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:49
S44	2	("5761339").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/10 21:53

## EAST Search History

S45	3154	(detect\$4 or segment\$4) adj2 (text or character or shape) and (line or edge) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 08:02
S46	7868	(ordinate\$2 or abscissa\$2) same edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 08:03
S47	8	S45 and S46	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 08:03
S48	146487	(ordinate\$2 or abscissa\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 08:03
S49	181	S45 and S48	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 08:04
S50	341	(detect\$4 or segment\$4) adj2 (text or character or shape) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:21
S51	7868	(ordinate\$2 or abscissa\$2) same edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:22
S52	1	S50 and S51	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:22

## EAST Search History

S53	101	(ordinate\$2 or abscissa\$2) near edge\$2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:22
S54	4985	(detect\$4 or segment\$4) adj2 (text or character or shape) same connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:41
S55	9	(detect\$4 or segment\$4) adj2 (text or character or shape) same connect\$4 and (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:46
S56	6	(detect\$4 or segment\$4) adj2 (text or character or shape) and connect\$4 same (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:47
S57	25	(detect\$4 or segment\$4) adj2 (text or character or shape) and (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:48
S58	1860	(text or character or shape) and (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:51
S59	1953	(text or character\$2 or shape) and (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:51
S60	1042	(text or character\$2 or shape) same (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:51

## EAST Search History

S61	389	(text or character\$2) same (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:52
S62	1	(text or character\$2) same (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) near (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:58
S63	30	(text or character\$2) same (vertical or ordinate\$2 or abscissa\$2 or horizontal) near (edge\$2) near (line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 09:59
S64	74349	(text or character\$2 or shape) same (line or edge\$2) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:06
S65	182	S51 and S64	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:07
S66	2005	(detect\$4 or segment\$4) adj2 (text or character\$2) near5 (block\$2 or area\$2 or region\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:11
S67	2918	(vertical or ordinate\$2 or abscissa\$2 or horizontal or coordinate\$3) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:12
S68	2	S66 and S67	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:12



## EAST Search History

S69	29	(vertical or ordinate\$2 or abscissa\$2 or horizontal) same (coordinate\$3) near (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:13
S70	46030	(vertical or ordinate\$2 or abscissa\$2 or horizontal or coordinate\$3) same (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:20
S71	2123	(coordinate\$3) same (edge\$2) same (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:21
S72	2	S66 and S71	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:21
S73	68	(coordinate\$3) near4 (edge\$2) near4 (straight same line\$2)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:31
S74	2	(detect\$4 or segment\$4) adj2 (text or character\$2) near5 (block\$2 or area\$2 or region\$3) and (edge\$2) near (coordinat\$3 or vertices or vertex\$3) same connect\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:42
S75	7	(detect\$4 or segment\$4) adj2 (text or character\$2) near5 (block\$2 or area\$2 or region\$3) and (edge\$2) near (coordinat\$3 or vertices or vertex\$3) same line	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:45
S76	39	(detect\$4 or segment\$4) adj2 (text or character\$2) near5 (block\$2 or area\$2 or region\$3) and (edge\$2) same (coordinat\$3 or vertices or vertex\$3) same line	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:47

## EAST Search History

S77	13	(detect\$4 or segment\$4) adj2 (text or character\$2) near5 (block\$2 or area\$2 or region\$3) and (edge\$2) near4 (parallel)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 10:56
S78	8993	(text or character\$2) same (edge\$2) near4 (parallel or (straight near4 line))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 11:00
S79	27	(text or character\$2) near(edge\$2) near4 (parallel or (straight near4 line))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 11:00
S80	2	("5719969"   "6721463").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/06/11 11:06
S81	17300	382/135-139,181-231.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 16:59
S82	20955	(extract\$4 or separat\$3) same (lin\$3 or text\$3) same (color\$3 or colour\$3) same image	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:00
S83	696	(ordinate\$2 or abscissa\$2) same edge\$2 same (straight) same line	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:00
S84	17	S82 and S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:00
S85	1	S81 and S84	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:00

## EAST Search History

S86	3154	(detect\$4 or segment\$4) adj2 (text or character or shape) and (line or edge) near2 connect\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:02
S87	313	S81 and S86	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:02
S88	0	S83 and S87	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:03
S89	10147	358/500-540.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:06
S90	3	S89 and S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:06
S91	1473	S89 and S82	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:07
S92	2	S91 and S83	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:07
S93	37	Tadao near tomiyama	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:08

## EAST Search History

S94	38	toshie near imai	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:10
S95	1	(image and artificial and pixel\$2 and color and ordinate\$2 and abscissas and edge\$2). clm.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/06/11 17:15